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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/099,983	03/19/2002	Yue-Chuan Chu	003493.00517	5515
26652	7590	09/17/2008	EXAMINER	
AT&T CORP. ROOM 2A207 ONE AT&T WAY BEDMINSTER, NJ 07921			JAGANNATHAN, MELANIE	
			ART UNIT	PAPER NUMBER
			2619	
			MAIL DATE	DELIVERY MODE
			09/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/099,983	Applicant(s) CHU ET AL.	
	Examiner MELANIE JAGANNATHAN	Art Unit 2619	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 8-19 and 23-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 8-19, 23-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

- A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/20/2008 has been entered.
- Claims 1-4, 8-19, 23-32 are pending.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1-4, 7-11, 16-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Summers et al. US 6,961,416 (hereinafter Summers) in view of Rodman et al. US 20020103864 in further view of Aravamudan et al. US 6,584,076.

Regarding claims 1, 16, the claimed method/device for establishing a VOIP conference call by joining a first VOIP station in a communication between a plurality of communication stations, wherein at least one of the plurality of communication stations is a second VOIP station in a private network and first VOIP station is in the private network is disclosed by Internet-enabled system providing audio, video or data conferencing for IP callers (Figure 1, elements 16b) within one or more IP networks (element 14). See column 3, lines 34-61. Summers discloses IP caller joining caller to a scheduled conference (Figure 7).

Summers does not disclose a voice conference server. Rodman et al. disclose a voice conference server (Figure 1, element 150). At the time the invention was made it would have been obvious to modify Summers with a voice conference server, the motivation being a centralized control device to implement the conference session between users.

Summers discloses a personal entrance code for a caller to join a conference but does not disclose the claimed receiving an indication at a Voice Conference Server (VCS) from the first VoIP station in the private network for joining a VoIP call between the plurality of communication stations, wherein said indication comprises a code

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number identifying an existing conversation between the second VoIP station in the private network and a phone in a public network, wherein said VCS is external to said first VoIP station and said plurality of communication stations.

Rodman et al. discloses a data conference between or among a plurality of participating conference devices, referred to herein as conference endpoints. The conference endpoints are linked to each other and to a dedicated conference server by a private network or a public network such as the Internet. Each of the conference endpoints includes a Public Switched Telephone Network (PSTN) or similar interface to enable voice communication between and among the several conference endpoints. See paragraph 0011. Rodman et al. further discloses to initialize a data conference, one of the participating conference endpoints sends a conference initiation request over the network to a conference server. In a preferred embodiment, a data conference initiation sequence is activated by depressing a single key or button located on the conference endpoint or an associated remote control. Upon receipt of the conference initiation request, the conference server generates a conference code that uniquely identifies the data conference. The conference code is transmitted over the network to the requesting conference endpoint. See paragraph 0012. Responsive to the receipt of the conference code, the requesting conference endpoint transmits a conference invitation to remote conference endpoints via the audio or video bridge. The conference invitation typically comprises a string of DTMF tones which incorporates the conference code. Each of the conference endpoints is configured to continuously monitor audio signals received via the audio bridge to detect the transmission of the conference

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invitation. When the conference invitation has been received, the receiving conference endpoint responsively transmits a conference join request over the network to the conference server. The conference server then adds the network address and other identifying information of the receiving conference endpoint to a data conference participant list. See paragraph 0013. Additionally, each of the remote conference endpoints 110 is preferably provided with a conference initiation module, such as module 308 (FIG. 3), which monitors received audio signals to detect for a conference invitation in step 620 of Figure 6. When the conference initiation module 308 detects the conference invitation, the initiation module 308 extracts, therefrom, the conference code 310 (FIG. 3) for storage in the remote conference endpoint 110 memory. In step 622, the conference initiation module 308 of the remote conference endpoint 110 then sends (by any suitable protocol) a conference join request to the conference server 150 over the network 120. The conference join request will typically include the network address of the joining conference endpoint 110, together with the conference code 310 specifically identifying the data conference the remote conference endpoint 110 is requesting to join.

At the time the invention was made it would have been obvious to one of ordinary skill in the art to modify Summers' conferencing with the conference server and conference request including an conference code of Rodman et al. One of ordinary skill in the art would be motivated to do this for an improved system and method for initiating and managing a data conference between or among a plurality of conference endpoints and for a method for securing data conferences which does not require each participant

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to enter a security code at their corresponding conference endpoint by voice which is not secure. See paragraph 0010.

The claimed managing data packet transmission between first VOIP station and one of the plurality of communication stations is disclosed by network interface chassis (Figure 3, element 28) including voice nodes and VoIP node including voice traffic cards (element 68) and VoIP cards (element 70) and conference bridge node (element 64) for traffic from IP users and PSTN users participating in conference. See column 3, lines 34-61, column 6, lines 1-46, column 8, lines 36-52.

Summers and Rodman do not disclose the claimed establishing an RTP voice path with the first VOIP station for joining a VOIP call between the plurality of communication stations. Aravamudan et al. discloses devices which can be IP telephones (Figure 1, element 103) interfaced to device servers (element 101) and discloses a conference call on which there are three or more device servers. When a user on device server requests to be added to conference call, call coordinator (element 105) selects a conference bridge to connect device server to other device servers so newly added device server can transmit media in the form of RTP/UDP packets over logical links (element 119) where RTP/UDP protocol is used. See column 4, lines 30-36, column 6, lines 25-34, column 7, lines 25-29, lines 43-55. At the time the invention was made it would have been obvious to modify Summers and Rodman to connect user to conference over logical links using RTP/UDP protocol as in Aravamudan et al. One of ordinary skill in the art would be motivated to do this for transmission of media packets among the different devices.

Regarding claim 4, the claimed receiving an indication, being a switch signal, from the first VOIP station for joining a VOIP call between the plurality of communication stations is disclosed by IP user (element 16b) enters its IP address and connects to corresponding VoIP node in network interface chassis.

Regarding claim 2, the claimed at least one of the plurality of communication stations is a PSTN phone is disclosed by PSTN callers (Figure 1, elements 16a) participating in conference. See column 3, lines 34-61, column 6, lines 1-46, column 7, lines 12-17, column 8, lines 36-52.

Regarding claim 3, the claimed at least one of the plurality of communication stations is a VOIP phone is disclosed by IP callers (Figure 1, elements 16b).

Regarding claim 22, the claimed indication to join a VOIP call between a plurality of communication stations comprising a code number identifying a connection in private network is disclosed by caller may need to provide a personal entrance code and then caller is joined in conference. See column 11, lines 26-40, lines 62-67.

Regarding claims 7, 23, the claimed further comprising informing the plurality of communication stations the status of the first VOIP is disclosed by in process of joining conference, caller further provides an associated caller identifier to allow the name or any other information for itself to be conveyed to one or more other callers that are already joined or will later join the conference. See column 11, lines 52-56.

Regarding claims 8, 10, the claimed managing data packet transmissions comprises mixing data packets from first VOIP station and at least one of the plurality of communication stations is disclosed by voice signals received at voice cards of IP

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callers and PSTN callers are placed onto TDM bus in corresponding timeslot. See column 11, lines 66-67, column 12, lines 1-13.

Regarding claims 9, 11, the claimed managing data packet transmissions further comprises sending the mixed data packets to at least one of the plurality of communication stations including first VOIP station is disclosed by TDM bus is communicated to conference card and conference traffic from all or selected other callers are placed on TDM bus for communication to voice and VoIP cards and then to callers. See column 12, lines 1-13.

Regarding claim 17, the claimed status monitor for informing a VOIP call agent of the status of the first VOIP station is disclosed by in process of joining conference, caller further provides an associated caller identifier to allow the name or any other information for itself to be conveyed to one or more other callers that are already joined or will later join the conference. See column 11, lines 52-56.

Regarding claim 18, the claimed at least one of the plurality of communication stations is a PSTN phone is disclosed by PSTN callers (Figure 1, elements 16a) participating in conference. See column 3, lines 34-61, column 6, lines 1-46, column 7, lines 12-17, column 8, lines 36-52.

Regarding claim 19, the claimed at least one of the plurality of communication stations is a VOIP phone is disclosed by IP callers (Figure 1, elements 16b).

Regarding claims 24, 26, the claimed managing data packet transmissions comprises mixing data packets from first VOIP station and at least one of the plurality of communication stations is disclosed by network interface chassis (Figure 3, element 28)

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including voice nodes and VoIP node including voice traffic cards (element 68) and VoIP cards (element 70) and conference bridge node (element 64) for traffic from IP users and PSTN users participating in conference. See column 3, lines 34-61, column 6, lines 1-46, column 8, lines 36-52.

Summers discloses voice signals received at voice cards of IP callers and PSTN callers are placed onto TDM bus in corresponding timeslot. TDM bus is communicated to conference card and conference traffic from all or selected other callers are placed on TDM bus for communication to voice and VoIP cards and then to callers. See column 11, lines 66-67, column 12, lines 1-13.

Regarding claims 25, 27, the claimed managing data packet transmissions further comprises sending the mixed data packets to at least one of the plurality of communication stations including first VOIP station is disclosed by network interface chassis (Figure 3, element 28) including voice nodes and VoIP node including voice traffic cards (element 68) and VoIP cards (element 70) and conference bridge node (element 64) for traffic from IP users and PSTN users participating in conference. See column 3, lines 34-61, column 6, lines 1-46, column 8, lines 36-52.

Summers discloses voice signals received at voice cards of IP callers and PSTN callers are placed onto TDM bus in corresponding timeslot. TDM bus is communicated to conference card and conference traffic from all or selected other callers are placed on TDM bus for communication to voice and VoIP cards and then to callers. See column 11, lines 66-67, column 12, lines 1-13.

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3. Claims 12-15, 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Summers, Rodman et al. and Aravamudan in view of Cannon et al. US 6,269,159.

Regarding claims 12, 28, Summers discloses the claimed VoIP station by IP callers (Figure 1, element 16b). Summers, Rodman et al. and Aravamudan et al. combined disclose all of the limitations of the claim except for the claimed indicating a busy status on the claimed VoIP station. Cannon et al. discloses a three-way conferencing method and system where a calling party will not be allowed to conference into existing telephone call and party is provided with a busy signal. See column 6, lines 54-58. At the time the invention was made it would have been obvious to modify system of Summers with IP caller by providing a busy signal as in Cannon et al. One of ordinary skill in the art would be motivated to do this to indicate to status of parties in call.

Regarding claims 13-15, 29-31, Summers discloses the claimed VoIP station by IP callers (Figure 1, element 16b). Summers, Rodman et al. and Aravamudan et al. combined disclose all of the limitations of the claim except for the claimed receiving an on-hook signal from first VOIP station and from at least one of the plurality of communication stations and call is disconnected. Cannon et al. discloses receiving an indication from a third party wishing to join a call between two existing parties, the indication being call-related information. See column 3, lines 1-20. Additionally, Cannon et al. discloses a three-way conferencing method and system where a calling party will not be allowed to conference into existing telephone call and party is provided with a busy signal as in other party is on-hook. See column 6, lines 54-58. At the time

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the invention was made it would have been obvious to modify Summers to include the initiation of on-hook signal or busy signal as in Cannon. One of ordinary skill in the art would be motivated to do so to indicate status of parties in call.

Response to Arguments

4. Applicant's arguments filed 11/21/2007 have been fully considered but they are moot in view of the new grounds of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELANIE JAGANNATHAN whose telephone number is (571)272-3163. The examiner can normally be reached on Monday-Friday from 8:00 a.m.-5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Melanie Jagannathan/
Primary Examiner, Art Unit 2619
September 12, 2008